

Invoice

3780 Kilroy Airport Way
Suite 750
Long Beach, CA 90806
P: (562) 590-6500

De Maximis Inc.
186 Center Street, Suite 290
Clinton, NJ 08809

September 20, 2016
Project No: 6664-05
Invoice No: 721204

Project 6664-05 LPR/NB Modeling Program - Developing responses to EPA comments (HD, ST and OC)

Professional Services from August 21, 2016 through September 17, 2016

Phase 2 Sediment transport Model comments

Professional Personnel

	Hours	Rate	Amount	
Engineer/Scientist II				
Engineer/Scientist III				
Mathew, Rooni	20.50	183.00	3,751.50	
Totals	20.50		3,751.50	
Total Labor				3,751.50
			Total this Phase	\$3,751.50

Phase 4 Meetings

Professional Personnel

	Hours	Rate	Amount	
Senior Engineer/Scientist				
Senior Engineer/Scientist				
Canizares, Rafael	6.00	226.00	1,356.00	
Engineer/Scientist II				
Engineer/Scientist III				
Mathew, Rooni	20.50	183.00	3,751.50	
Totals	26.50		5,107.50	
Total Labor				5,107.50
			Total this Phase	\$5,107.50

Phase 5 Collaboration with AQEA

Professional Personnel

	Hours	Rate	Amount	
Senior Engineer/Scientist				
Senior Engineer/Scientist				
Canizares, Rafael	7.00	226.00	1,582.00	

Check Lockbox Account

Payable to: Moffatt & Nichol
P.O. Box 51760
Los Angeles, CA 90051-0068
ClientPayments@moffattnichol.com

ACH / Wire Payment Information

Bank / Account Name: Union Bank / Moffatt & Nichol
Address: 400 California St. San Francisco, CA 94101
Account Number: 4501065066
Fed Routing Number: 122000496

International Wires

Swift Code: Bofcus33mpk

Project	6664-05	LPR/NB Modeling Program - Developing res	Invoice	721204
Engineer/Scientist II				
Engineer/Scientist III				
Mathew, Rooni				
		43.00	183.00	7,869.00
	Totals	50.00		9,451.00
	Total Labor			9,451.00
			Total this Phase	\$9,451.00
			TOTAL DUE THIS INVOICE	\$18,310.00

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Billing Backup

Tuesday, September 20, 2016

Moffatt & Nichol

Invoice 721204 Dated 9/20/2016

4:27:58 PM

Project	6664-05	LPR/NB Modeling Program - Developing responses to EPA comments (HD, ST and OC)
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Phase	2	Sediment transport Model comments
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Professional Personnel

			Hours	Rate	Amount
Engineer/Scientist II					
Engineer/Scientist III					
2219	Mathew, Rooni	8/29/2016	3.00	183.00	549.00
2219	Mathew, Rooni	8/30/2016	3.50	183.00	640.50
2219	Mathew, Rooni	9/1/2016	4.00	183.00	732.00
2219	Mathew, Rooni	9/13/2016	5.50	183.00	1,006.50
2219	Mathew, Rooni	9/15/2016	1.50	183.00	274.50
2219	Mathew, Rooni	9/16/2016	3.00	183.00	549.00
Totals			20.50		3,751.50
Total Labor					3,751.50

Total this Phase \$3,751.50

Phase	4	Meetings
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Professional Personnel

			Hours	Rate	Amount
Senior Engineer/Scientist					
Senior Engineer/Scientist					
1548	Canizares, Rafael	8/24/2016	2.00	226.00	452.00
1548	Canizares, Rafael	8/26/2016	4.00	226.00	904.00
Engineer/Scientist II					
Engineer/Scientist III					
2219	Mathew, Rooni	9/6/2016	.50	183.00	91.50
2219	Mathew, Rooni	9/7/2016	2.50	183.00	457.50
2219	Mathew, Rooni	9/8/2016	6.00	183.00	1,098.00
2219	Mathew, Rooni	9/9/2016	7.50	183.00	1,372.50
2219	Mathew, Rooni	9/16/2016	4.00	183.00	732.00
Totals			26.50		5,107.50
Total Labor					5,107.50

Total this Phase \$5,107.50

Phase	5	Collaboration with AQEA
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Swift Code: Bofcus33mpk

Professional Personnel

			Hours	Rate	Amount	
Senior Engineer/Scientist						
Senior Engineer/Scientist						
1548	Canizares, Rafael	9/12/2016	1.00	226.00	226.00	
1548	Canizares, Rafael	9/13/2016	2.00	226.00	452.00	
1548	Canizares, Rafael	9/14/2016	3.00	226.00	678.00	
1548	Canizares, Rafael	9/16/2016	1.00	226.00	226.00	
Engineer/Scientist II						
Engineer/Scientist III						
2219	Mathew, Rooni	8/29/2016	1.00	183.00	183.00	
2219	Mathew, Rooni	8/30/2016	.50	183.00	91.50	
2219	Mathew, Rooni	8/31/2016	2.00	183.00	366.00	
2219	Mathew, Rooni	9/2/2016	4.00	183.00	732.00	
2219	Mathew, Rooni	9/6/2016	7.50	183.00	1,372.50	
2219	Mathew, Rooni	9/7/2016	5.50	183.00	1,006.50	
2219	Mathew, Rooni	9/8/2016	2.00	183.00	366.00	
2219	Mathew, Rooni	9/9/2016	.50	183.00	91.50	
2219	Mathew, Rooni	9/12/2016	4.00	183.00	732.00	
2219	Mathew, Rooni	9/13/2016	2.50	183.00	457.50	
2219	Mathew, Rooni	9/14/2016	8.00	183.00	1,464.00	
2219	Mathew, Rooni	9/15/2016	5.50	183.00	1,006.50	
	Totals		50.00		9,451.00	
	Total Labor					9,451.00
				Total this Phase		\$9,451.00
				Total this Project		\$18,310.00
				Total this Report		\$18,310.00

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Detailed Description of work done by M&N personnel associated to the LPR/NB Modeling Program - Developing Responses to EPA Comments – Scope of Work for the period 08/21/2016 to 09/17/2016 M&N Project No. 6664

Hydrodynamics Principal Investigator - Rafael Cañizares.

Task 4 – Meetings	<ul style="list-style-type: none"> • Prepare invoices May-August
Task 5 – Collaboration with AQEA	<ul style="list-style-type: none"> • Review AQEA ST-CFT fluff - Conference call • Review final comments from EPA, discussion with PC

Rooni Mathew.

Task 2 – Sediment transport Model comments	<ul style="list-style-type: none"> • Revise ST Sedflume appendix with EPA comments • Code/Rouse profile formulation review and edits to settling velocity attachment • Edits to settling velocity attachment
Task 4 – Meetings	<ul style="list-style-type: none"> • Review/comment AQ slides for TC meeting regarding Sep 20 meeting w EPA • Edits to Sedflume appendix • Finish edits to Sedflume appendix text and figures • Prep for meeting with EPA, develop list of OC validation datasets
Task 5 – Collaboration with AQEA	<ul style="list-style-type: none"> • Coordination with AQEA on OC model sensitivities • Coordination with AQEA on modeling meeting • Review AQEA plots, conference call with AQEA on fluff layer diagnostics • Code changes and tests with additional output on active layer, rerun 1011-1213 • Debug issues with HD rerun of V6 calibration due to hard-disk crash, rerun HD and ST w additional fluff outputs • Debug HD/ST issues, review model performance and additional outputs for AQEA, and respond to AQEA questions • Transfer additional outputs to AQEA, final checks on HD/ST reruns



	<ul style="list-style-type: none">• Respond to AQEA questions• Review Section 3 comments and provide feedback to AQEA, review/provide responses to AQEA questions on linkage• Respond to AQEA questions, review linkage outputs• Review/plot model results to support scour velocity implementation by AQEA,• Conference call with AQEA, review scour velocity. code• Review/debug scour velocity code and rerun ST for additional outputs, code modifications for scour velocity with consolidated density.
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